Claims

1. (Currently Amended) In a computer system, a method of representing video data for a video image, the method comprising:

representation, the n-bit representation comprising a 16-bit fixed-point block of data for the pixel, where the most significant byte in the 16-bit unit of data is an integer component, where the least significant byte in the 16-bit unit of data is a fractional component, and where the n-bit representation is convertible to a lower-precision representation by assigning zero values to one or more of the bits in the least significant byte while the most significant byte is unchanged.

- 2. (Original) The method of claim 1 wherein the n-bit representation is a 16-bit representation and the lower-precision representation is a 10-bit representation.
- 3. (Original) The method of claim 1 further comprising converting the n-bit representation to an (n-m)-bit representation by assigning zero values to the m least-significant bits in the least-significant byte.
- 4. (Original) The method of claim 1 wherein the chroma information is sampled at a resolution less than the luma information.
- 5. (Original) A computer-readable medium having computer-executable instructions stored thereon for performing the method of claim 1.
 - 6.-34. (Canceled)
- 35. (Previously Presented) The method of claim 3 wherein the n-bit representation is a 16-bit representation, and wherein the (n-m)-bit representation is a 10-bit representation.
- 36. (Previously Presented) The method of claim 3 further comprising processing data in the (n-m)-bit representation using (n-m)-bit hardware.

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- 37. (Previously Presented) The method of claim 36 wherein the (n-m)-bit hardware comprises a 10-bit processor.
- 38. (Previously Presented) The method of claim 3 wherein the n-bit representation and the (n-m)-bit representation are associated with different FOURCC codes.
- 39. (Previously Presented) The method of claim 1 wherein one or more alpha values are associated with the video image.
 - 40. (Currently Amended) A computer system comprising:

at least one memory containing chroma and luma information for at least one pixel in a video image, the chroma and luma information in an n-bit representation, the n-bit representation comprising a 16-bit fixed-point block of data for the pixel, where the most significant byte in the 16-bit unit of data is an integer component, where the least significant byte in the 16-bit unit of data is a fractional component, and where the n-bit representation is convertible to a lower-precision representation by assigning zero values to one or more of the bits in the least significant byte while the most significant byte is unchanged; and

one or more processing units operable to process the chroma and luma information for the at least one pixel in the video image.

- 41. (Previously Presented) The computer system of claim 40 wherein the n-bit representation is a 16-bit representation and the lower-precision representation is a 10-bit representation.
- 42. (Previously Presented) The computer system of claim 41 wherein at least one of the one or more processing units is a 10-bit processing unit, and wherein the 16-bit representation is converted to a 10-bit representation by assigning zero values to 6 least-significant bits in a least-significant byte.

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- 43. (Previously Presented) The computer system of claim 40 wherein at least one of the one or more processing units an x-bit processing unit, where x is equal to the number of bits in the lower-precision representation.
- 44. (Previously Presented) The computer system of claim 40 wherein the n-bit representation and the lower-precision representation are represented by different FOURCC codes.
- 45. (Previously Presented) The computer system of claim 40 wherein the at least one memory further contains one or more alpha values associated with the video image.
- 46. (Previously Presented) The computer system of claim 40 further comprising a display.

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